

asureVIP from TVS

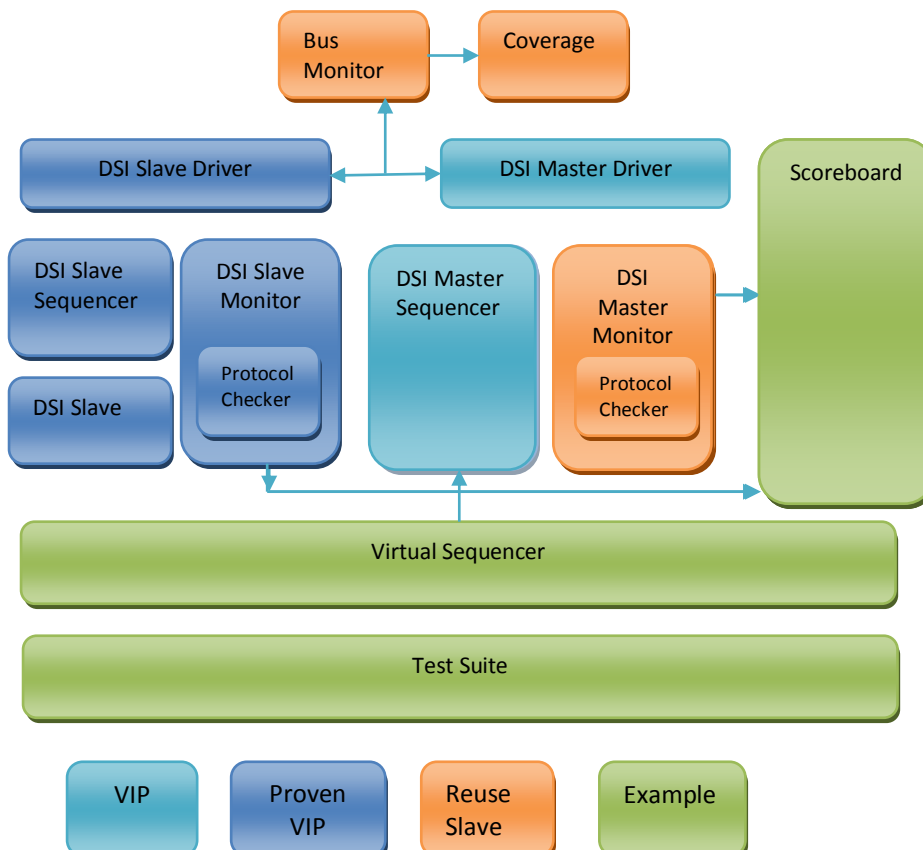
TVS MIPI DSI UVM VIP

Overview

Test and Verification Solutions'asureVIP™ for MIPI DSI enables constrained random metric driven verification of IP level or SOC level verification of this protocol specification. MIPI DSI VIP offers flexibility, excellent product support, while UVM support allows reusability, fully configurable, coverage driven verification.

This UVM VIP has extensive constrained-random stimuli generation capabilities, configurable monitors and checks to ensure protocol compliance for Host as wells as Peripherals. Pre-defined coverage bins enable easier extension and coverage collection.

Block Diagram



Test and Verification Solutions

Features

- Complete Host and Peripheral Verification support.
- Peripheral Features for HOST Verification :
 - Command and Video mode support.
 - Error Detection.
 - Support All DSI Packet types.
- HOST Features for Peripheral Verification:
 - Fully scalable lanes.
 - Error Injection (Word count, ECC and Checksum)
 - Generate all types of Packets.
- Long and Short Packet support with constrained-randomization.
- 1-4 Virtual Channel Support.
- Multi-Lane distribution and merging.
- Complete API support for software testing.



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Technical Specification

Part Number	asureVIP_MIPI_DSI
Description	MIPI DSI UVM VIP
Provider	Test and Verification Solutions
Languages Supported	System Verilog
Methodology	UVM 1.1
Simulators	Cadence Incisive, Mentor Questa, Aldec Riviera-PRO
Compliance	MIPI Alliance Specification for Display Serial Interface Version 1.02.00 – 28 June 2010
Availability	Development in progress, can be accelerated depending on customer requirement

About Us

TVS delivers an independent verification service that not only reduces your costs and time-to-market, but also improves product quality.

TVS combines skills and experience in software testing, hardware verification and outsourcing to provide customers with an efficient, well-managed, quality assurance service.

TVS provides both consultancy and execution services using experienced engineering resources in several locations around the world. TVS removes the pain and risk from outsourcing leaving you with just the benefits.

To learn more about our offerings, write to us at sales@testandverification.com

Test and Verification Solutions

Benefits

- Highly Flexible, Independent and Configurable MIPI DSI
- UVM VIP
- Less TAT in integrating into SOC Verification environments
- Excellent Product Support

Deliverables

- VIP user Guide
- MIPI DSI UVM VIP
- Sample Testbench
- Sample Scoreboard
- Sample Virtual Sequencer



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